



IIT Research Institute
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Astro Sciences Center

December 20, 1965

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Office of Manned Space Scier.
NASA Headquarters
Washington, D. C. 20546

Attention: Mr. W. B. Foster

Subject: Letter Report No. IITRI W6099-15
November 1, 1965 through November 30, 1965
Contract No. NASr-65(10)

Gentlemen:

1. Work Performed During Report Period (please refer to attached task schedule for task titles)

Task I: a) Completed technical memorandum on infrared non-imaging systems for AAP (Technical Memorandum-14), b) prepared presentation material for Remote Sensor Meeting in Miami, c) prepared material for submission to SSSC on AAP radar and photo experiments, d) prepared guidelines for potential experimenters' presentations to subcommittees, e) compiled and organized minutes from Photographic Team meeting.

Task II: Prepared definition of Cost Model Study Plan.

Task III: Contacted all experimenters for reliable estimates of data return.

Task IV: Analysis and planning for site/sensor requirements.

Task V: a) Commenced analysis of the report on "Unique Advantages of Orbital Remote Sensing for the Study of Natural Resources", b) prepared agenda and assembled visual aid material for presentation of the Remote Sensor Program at MSFC, c) prepared report material for submission by SM to Space Science Board, National Academy of Sciences.

Task VII: Completed for publication in the next reporting period the initial report on geological surveying techniques for use by geologists in mapping AAP test sites.

Task VIII: a) Prepared at the request of SM personnel the latest experimental data compendium for use by Lockheed Missile and Space Division in the Lunar Orbital integration studies for AAP, b) prepared comments on General Electric report "Alternate Apollo Missions".

Task IX: a) Prepared, analyzed and made revisions to program schedules and cost data for the overall science program experiments for manned space flight, b) compiled and analyzed experiment status, costs and schedules for the Remote Sensor Program, c) prepared status cards for Geochemistry Sample Analysis tasks, d) completed revised edition of AAP Earth Orbital Mission Definition Document (2nd edition).

2. Discussions and Visits

2.1 November 1, 1965 - NASA Headquarters

ASC

R. Dubinsky

2.1.1 Subject: Briefing of SM by Teledyne, Inc. and Sanders, Inc. on ground-based and space-borne telemetry systems for Apollo and AAP.

2.2 November 4, 1965 - U. S. Geological Survey

ASC

C. A. Stone

USGS

W. Fischer
W. Hemphill

2.2.1 Subject: Status of AAP IR experiments.

2.3 November 5, 1965 - NASA Headquarters

ASC

W. Vest

IITRI

P. N. Slater

2.3.1 Subject: To attend Photographic Team Meeting.

2.4 November 9-10, 1965 - MSFC

ASC

R. Vickers
J. Barmby
M. Stein

2.4.1 Subject: To attend briefing at MSFC on Remote Sensors.

SUGGESTED TASK SCHEDULE

[illegible]

ASC/IITRI
NOV. 4, 1965

1. STUDIES OF AES EXPERIMENT CAPABILITIES AND CONFIGURATIONS.
2. EXPERIMENT COST MODEL STUDY.
3. DATA BULK STUDY FOR AES-MANNED LUNAR ORBITER.
4. ANALYSIS OF PERTINENT LUNAR SITES MEASUREMENTS, INSTRUMENTS AND SCIENTIFIC EXPLORATION CONCEPTS.
5. PREPARATION OF PERIODIC SCIENTIFIC REPORTS.
6. STUDY OF THE SCIENTIFIC REQUIREMENTS FOR AN AES/MLO SUBSATELLITE.
7. STUDY TO OPTIMIZE THE AES REMOTE-SENSOR AIRCRAFT TEST PROGRAM.
8. ANALYSIS AND CORRELATION OF ASSOCIATED STUDIES.
9. STUDIES RELATING TO PROGRAM ANALYSIS AND PLANNING.
10. STUDIES RELATING TO MSS EXPERIMENTAL AREAS OTHER THAN REMOTE SENSING.
11. RADIO FREQUENCY INTERFERENCE STUDIES.